

Hi, I am a new designer at the Polynomial Seating Company (PSC) and I have just design a new chair for my first client and I hope you will love it.

As you can see from the graph my chair is made by the four points and two equations. Point A and Point C is made as a standing point, a point that can let the chair stand on the ground. Point D is made as a point of the height of the chair, it can show as a seat height. I use the first equation to make some curves and the curves join the four points to form the shape of the chair than I use the second equation to make a canopy for the chair in order to meet the need of the client.

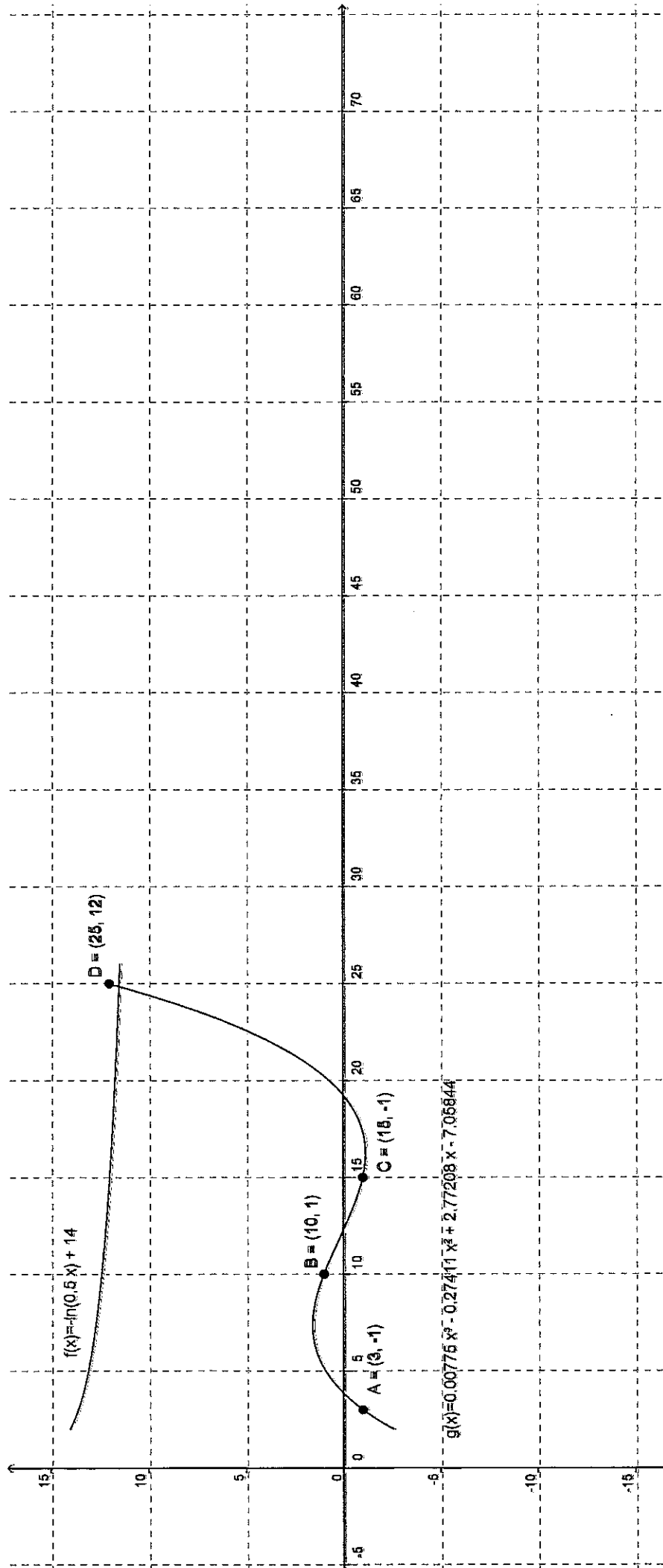
For my design the chair is suitable for people. My chair will be made with plastic. I have measured a male adult's height as a reference for my chair. My seat height is made according to the reference I got. The seat is not too long because if it is too long the chair back, it will become very hard and people may feel uncomfortable when they seat on my chair. In the graph the distance between Point A and Point C is 12 blocks and a male adult height is about 100 cm and in the graph each block will be representing 8 cm in reality. So my chair's back is 10 blocks in the graph. Base of the height of the upper part of the male adult and it is 53 cm in reality. The chair has a canopy on it so of course it can use to block sun light and rain, but the chair sometimes cannot block the sun light because if the sun will move and my chair can only block the sunlight from the top. Rain can also be block by my chair but the only bad thing of my chair is it can only block the rain from your head to your knees. The canopy is not long enough to cover the whole chair and maybe your feet will get wet when raining. My chair can be store easily. The canopy on my chair is very thin but elastic so you can fold it when you want to absorb the sunlight at the beach. You can also fold the bottom part and the back of the chair. After folding the chair it will become like a box and you can store it anywhere you like.

There is another thing for my design a client can change the design if he/she doesn't like it. For example if my client wants to change the height of the chair back I can change it by change the number in Point D. Now Point D's numbers are (25, 12) if I change it into (25,14) the graph will change and the point will be higher than before that means the height have change and the back of the chair will be high. And it is the same way that I use to change the other parts of the chair.

Due to the limited time I have quickly design that chair for my client and I think I have many things I can improve if I have more time.

The first thing I can improve is the shape of the chair. My design is very simple I can add more equation and make more different shape of chair and for the canopy I can also improve it by adding different equation and I can make it more beautiful and the chair will be great.

The Second thing I can improve is the research. I cannot find a regular human height on the internet so I decided to measure myself. If I have more time I can go and measure different adult and I think it would help me to make the data of my chair become more accurate.



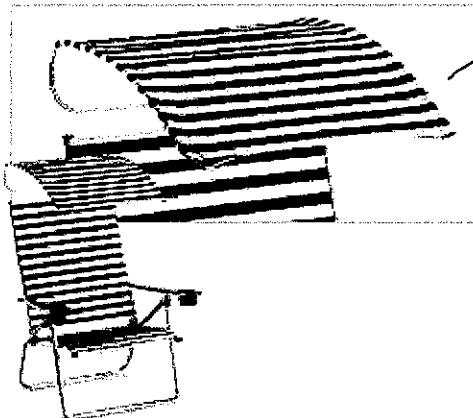
Research



Source:

Canopy Beach Folding Lounger - Detailed Info for Canopy Beach Folding Lounger, folding Sun Lounger, canopy Beach Folding Lounger, WIX-S1012-1 on Alibaba.com." *WIXXON CO LTD - Outdoor Wicker Furniture, Beach Folding Chair, Swing*. Web. 30 Sept. 2011.

<http://wixxon.en.alibaba.com/product/423715144-212282413/canopy_beach_folding_lounger.html>.

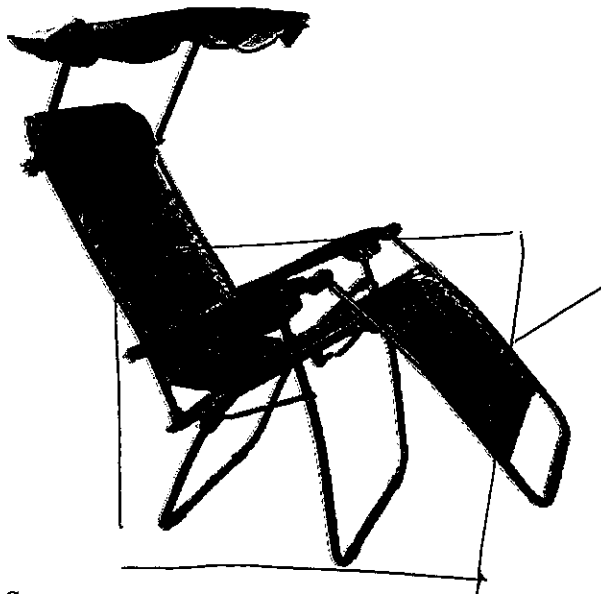


it can
be a reference
for my canopy

Source:

Canopy Beach Chairs." Web. 30 Sept. 2011.

<<http://beachtimeproducts.secure-mall.com/category/Canopy-Beach-Chairs-8>>.



my chair
can fold
like this
and it's easy
to store.

Source:

Zero Gravity Lounge Chair with Canopy." *Patio Furniture, Outdoor Patio Umbrellas & Market Umbrella, Furniture Covers for Your Garden, Lawn, or Deck*. Web. 30 Sept. 2011.

<http://www.backyardcity.com/Patio-Furniture-Aluminum/JMC-Zero-Gravity-Chair-Canopy-3ft-drecl-b.htm>



Source:

Textilene Chair-compare Prices, reviews-wholesale or Buy from Suppliers or Manufacturers." *TopFreebiz*. Web. 30 Sept. 2011.

<http://www.topfreebiz.com/countryssearch/Textilene-Chair/1.htm>

